

**DISPERSANT FOR WATER-SOLUBLE COPOLYMER AND METHOD OF EMULSION POLYMERIZATION USING THE SAME****Publication number:** JP4007309 (A)**Publication date:** 1992-01-10**Inventor(s):** KATO NAOYUKI; TSUKAMOTO TAKEO; SUZUKI NAOTAKA**Applicant(s):** MITSUBISHI YUKA BADISCHE**Classification:**

- international: **B01F17/52; C08F2/24; C08F8/44; C08F20/52; C08F220/58; C08F246/00; D06M15/263; D06M15/29; B01F17/52; C08F2/12; C08F8/00; C08F20/00; C08F220/00; C08F246/00; D06M15/21; (IPC1-7): C08F220/58**

- European:

**Application number:** JP19900106415 19900424**Priority number(s):** JP19900106415 19900424**Also published as:** JP2864147 (B2)**Abstract of JP 4007309 (A)**

**PURPOSE:** To prepare the title dispersant useful for the emulsion polymerization of an unsaturated monomer mixture containing N-alkylol(meth)acrylamide by adding an alkali to a specific copolymer to make it water-soluble.

**CONSTITUTION:** An alkali (e.g. NaOH) is added to a copolymer comprising 1-40wt.% monomer units derived from a monomer selected from the group consisting of (meth)acrylamide, an N-alkyl derivative of (meth)acrylamide, and an N-alkylol derivative of (meth)acrylamide, 3-40wt.% monomer units derived from a 3-5C ethylenically unsaturated carboxylic acid, 96-50wt.% monomer units derived from a monomer selected from the group consisting of a 1-9C alkyl (meth) acrylate, a vinyl aromatic compound, a vinyl halide, (meth) acrylonitrile, and a vinyl saturated carboxylate, and 0-10wt.% other monomer units to thereby make the copolymer water-soluble, thus giving the title dispersant.; In the presence of the dispersant, an unsaturated monomer mixture containing 0.5-80wt.% N-alkylol(meth) acrylamide is emulsion-polymerized.

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